Transportation Research

Websites: http://www.elsevier.nl/locate/trc
: http://www.elsevier.com/locate/trc

Volume 8C, Nos. 1–6, February–December 2000 **Part C: Emerging Technologies**

Contents

J.-C. Thill	1	Preface
J.-C. Thill	3	Geographic information systems for transportation in perspective
K.J. Dueker and **J.A. Butler**	13	A geographic information system framework for transportation data sharing
J.C. Sutton and **M.M. Wyman**	37	Dynamic location: an iconic model to synchronize temporal and spatial transportation data
V. Noronha and **M.F. Goodchild**	53	Map accuracy and location expression in transportation – reality and prospects
D. Xiong	71	A three-stage computational approach to network matching
C.E. White, D. Bernstein and **A.L. Kornhauser**	91	Some map matching algorithms for personal navigation assistants
M. Mainguenaud	109	A query resolution engine to handle a path operator with multiple paths
K. Choi and **W. Jang**	129	Development of a transit network from a street map database with spatial analysis and dynamic segmentation
F. Southworth and **B.E. Peterson**	147	Intermodal and international freight network modeling
C. Claramunt, B. Jiang and **A. Bargiela**	167	A new framework for the integration, analysis and visualisation of urban traffic data within geographic information systems
M.-P. Kwan	185	Interactive geovisualization of activity-travel patterns using three-dimensional geographical information systems: a methodological exploration with a large data set
W. Bachman, W. Sarasua, S. Hallmark and **R. Guensler**	205	Modeling regional mobile source emissions in a geographic information system framework
J. You and **T.J. Kim**	231	Development and evaluation of a hybrid travel time forecasting model
M.A.P. Taylor, J.E. Woolley and **R. Zito**	257	Integration of the global positioning system and geographical information systems for traffic congestion studies
C.A. Quiroga	287	Performance measures and data requirements for congestion management systems

S.M. Alexander and **N.M. Waters**	307	The effects of highway transportation corridors on wildlife: a case study of Banff National Park
R.L. Church and **T.J. Cova**	321	Mapping evacuation risk on transportation networks using a spatial optimization model
W.C. Frank, J.-C. Thill and **R. Batta**	337	Spatial decision support system for hazardous material truck routing
T.A. Arentze and **H.J.P. Timmermans**	361	A spatial decision support system for retail plan generation and impact assessment
Y.-W. Huang, N. Jing and **E.A. Rundensteiner**	381	Optimizing path query performance: graph clustering strategies
Z.-R. Peng and **R. Huang**	409	Design and development of interactive trip planning for web-based transit information systems
A.K. Ziliaskopoulos and **S.T. Waller**	427	An Internet-based geographic information system that integrates data, models and users for transportation applications

CONTENTS direct This journal is part of **ContentsDirect**, the ***free*** alerting service which sends tables of contents by e-mail for Elsevier Science books and journals. You can register for **ContentsDirect** online at: **www.elsevier.nl/locate/contentsdirect**